

9958

FILED IN BOOK 100, SS  
COUNTY OF THE STATE OF OHIO  
Filed on the 4 day of Dec  
A.D. 1963 at 11:15 o'clock A.M.  
587M  
County Clerk and Recorder  
By 587M  
Deputy

### DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

**Developed after January 1, 1962**

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Augustus A ADAMS  
Owner: GUS ADAMS

Address .....

Date well started 7-2-62

completed 11/24/53

Type of well Drilled (Dug, driven, bored or drilled)

Equipment used Churn mill (Churn mill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

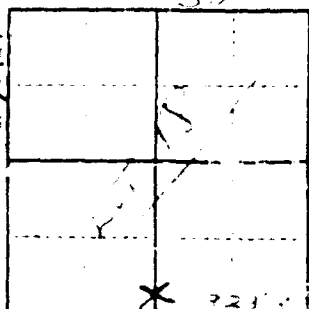
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

- Describe

**USE:** If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

## ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From Feet	To (Feet)
2 1/2"	10 lbs.	0	100			
	per ft.					



Feb 18 - Roundall  
Sec.

$$\frac{T}{S} = \frac{N}{R} = \frac{E}{W}$$

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.  
~~EACH SMALL SQUARE REPRESENTS 40 ACRES.~~

Driller's Signature Bill Meyer, Inc

Driller's Address \_\_\_\_\_

LICENSE NO. 5

Show exact depth of bottom

5,154

14,551

STATE OF MONTANA } SS  
COUNTY OF FLATHEAD }  
Filed on the 6 day of Nov  
A. D. 1972 at 8:30 o'clock PM  
By SMJ Clerk and Recorder  
DSM Deputy

Groundwater Sec.  
Sam W. Mitchell Building  
Helena, Montana 59601

Owner Augustus A. Adams 59101  
Address 2108 2nd Ave. N. Gl.  
Location 2 R. 2 Sec. 2  
Doc. No. 14551

As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your ground-water right.

Special Instructions: Please provide, as indicated in red on the attached form, the complete location of the well by section, township and range.

Thank you.

Owner Augustus A. Adams 50401  
Address 2108 2nd Ave. N. Gt. Falls  
Location T. 2 R. 2 Sec. 2  
Doc. No. 14551

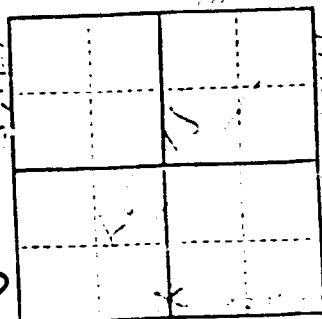
Special Instructions: Please provide, as indicated in red on the attached form, the complete location of the well by section, township and range.

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

- Describe

**USE:** If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL

[illegible]

Static water level ..... ft.  
Pumping water level ..... ft.  
at ~~100~~ 100 gallons per minute,  
measured ..... minutes after pumping  
began.  
-Measured from ground level.  
Well developed by .....  
for ..... hours.  
Power ..... Pump ..... HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff) .....

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.  
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature \_\_\_\_\_

Driller's Address

LICENSE NO

Show exact depth of bottom

5/954

Developed after January 1, 1962

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. \$

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner "GUS" ADAMS  
Address \_\_\_\_\_

Address .....

Date well started 2/1/61

completed \_\_\_\_\_

Type of well artesian

(Dug, driven, bored or drilled)

Equipment used \_\_\_\_\_

(Churn drill, rotary or other)

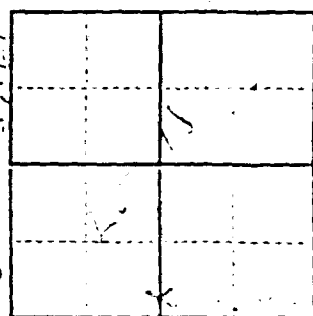
Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐\* Garden/Lawn ☐

\*Describe

**USE:** If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

## ESTIMATED ANNUAL WITHDRAWAL

[illegible]

Static water level ..... ft.\*  
Pumping water level ..... ft.\*  
at ..... ~~100~~ gallons per minute,  
measured ..... minutes after pumping  
began.

\*Measured from ground level.

Well developed by .....  
for ..... hours.

Power ..... Pump..... HP

Remarks: (Gravel packing, cementing, packers, type of shut-off) .....

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.  
~~IF SMALL SQUARE REPRESENTS 40 YARDS.~~

Driller's Signature *[Signature]*

Driller's Address

LICENSE NO

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

[illegible]

Show exact depth of bottom

6/254

GW 1

STATE WATER CONSERVATION BOARD

JULY 10 1966

File No. \_\_\_\_\_

T. \_\_\_\_\_ R. \_\_\_\_\_

E. \_\_\_\_\_

County \_\_\_\_\_

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

## Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

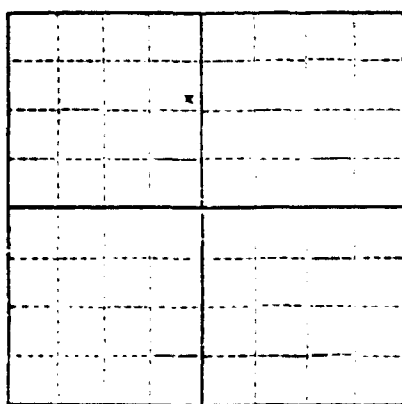
Date of Appropriation of Groundwater 11/16/43Owner Bill R Bishop Address Pt 1, Bigfork MontContractor, if any W AAddress of Contractor W ADate Started W A Date Completed W A

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.

Natural flow of spring water

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use.

About 1500 gallons per hour

Sec. 35 T. 27 R. 19  
Indicate point of appropriation  
and place of use, if possible.

Signature of Owner Bill R BishopDate 7/24/44

This form to be prepared by contractor, if any, otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

12, 193

26 12<sup>12</sup> 6p<sup>12</sup>  
66 6<sup>12</sup> 6m  
m<sup>12</sup>

RECEIVED

T. 27 R. 19  
County Flathead

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG


Owner Flathead County Address Butte, MT  
Driller Flathead County Address Butte, MT  
Date Started 1955 Date Completed 1955  
Location: Sec. 35 T. 27 R. 19 1/4 sec. S.W.

Type of well Dug Equipment used Auger  
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Other: \_\_\_\_\_

Casing: 2 ft. to 10 ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. \_\_\_\_\_ to ft. \_\_\_\_\_ Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations: \_\_\_\_\_

Static Water level, for non-flowing well: \_\_\_\_\_ feet.

Shut-in pressure, for flowing well: \_\_\_\_\_ lb. sq. in. on: \_\_\_\_\_ (date)

Pumping water level: \_\_\_\_\_ feet at \_\_\_\_\_ gal. per min.

How tested: Subsided

Length of test: 2 hrs

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



### Log of Well

Depth. feet		Description of Material Drilled
From	To	
Top	123'	Gravel Clay Cement Gravel + Water Bearing Sand + Gravel

GW 1

File No. \_\_\_\_\_

T. 27 N. R. 19 W.

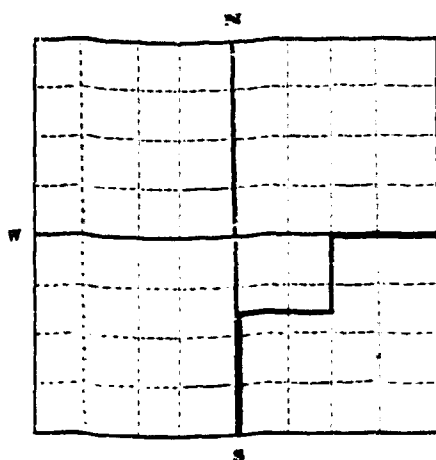
County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater Appropriation  
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date 14170  
Filed for record  
This 24 day of June  
A. 9 70 at 2:29  
P. M.



1/4 Sec. 35, T27N R. 19W  
Indicate point of appropriation  
and place of use, if possible.  
E1/4SE1/4, S1/4NW1/4SE1/4, SW1/4SE1/4  
Section 35, Township 27 North,  
Range 19 West, M.P.M.,  
Flathead County, Montana.

Date of Appropriation of Groundwater approximately 1910

Owner Thomas J. Heeney, Jr. Address Bigfork, Montana

Contractor (if any) None

Address of Contractor Not applicable

Date Started Approx. 1910 Date Completed Approx. 1910

Describe means of obtaining groundwater without a well "as by  
sub-irrigation and other natural processes". Include depth to  
water when applicable subirrigation, flooding and  
other natural processes from those streams  
known as Patterson Creek and Meadow Creek.

(See map attached hereto as Exhibit "A".

Quantity of water developed and used with explanation of method  
used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use approximately  
one and one-half miner's inches of water per  
acre.

Use is year around but primarily between the  
months of April and October.

Signature of Owner Thomas J. Heeney, Jr.

Date April 25, 1969

This form to be prepared by contractor if any, otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the  
works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana  
Bureau of Mines and Geology and Quadruplicate for the Appropriator.

47282

PROPERTY DESCRIPTION:  
E $\frac{1}{2}$ SE $\frac{1}{4}$ , S $\frac{1}{2}$ S $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$  Section 35 Township 27 North,  
Range 19 West, M.P.M., Flathead County, Montana.

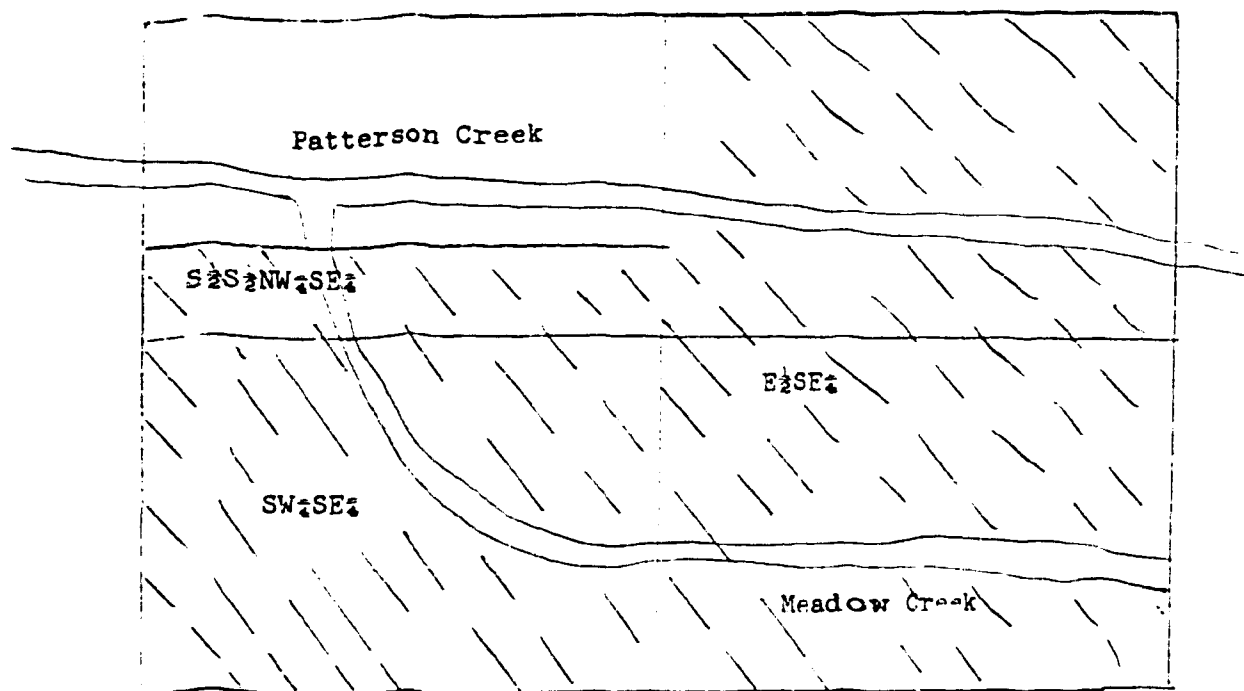


EXHIBIT "A"

6

1170

24 June  
22 121  
2000  
D

File No. ....

T 27 N R 19 W.

GW 1

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

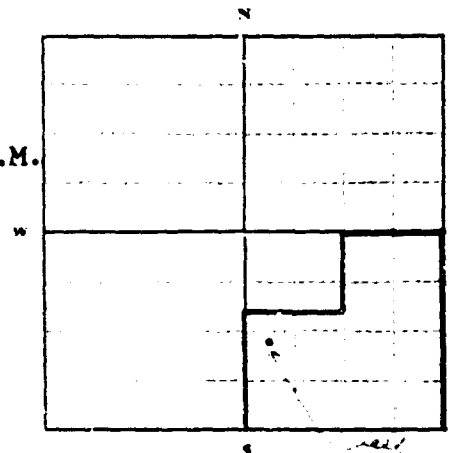
Notice of Appropriation of Groundwater

(Under Chapter 237, Montana Session Laws, 1961)

1. I, **Thomas J. Heeney, Jr.** of **Bigfork, Montana**  
Name of Appropriator Address (Town)  
County of **Flathead** State of **Montana** intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is **household, domestic and live-stock use and consumption, irrigation, and other useful or beneficial purposes. (See property description below for land to be irrigated.)**  
(Describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed **Thirty (30)**  
**gallons per minute**
4. The annual period (inclusive dates) of intended use **January 1 to December 31 (year around)**
5. The probable or intended date of first beneficial use **May, 1953**
6. The probable or intended date of commencement and completion of the well\* or wells\* **Well was completed on May 14, 1953**
7. The location, type, size and depth of well or wells contemplated **well is located on property described below. Well is a drilled well with a 7" OD casing - well is approximately 17 ft. deep.**
8. The probable or estimated depth of the water table or artesian aquifer **15 - 17 feet**
9. Name, address and license number of the driller engaged **Homer McClarty;**  
**License Number 18; 945 8th Ave. West, Kalispell, Montana**
10. Give such other similar information as may be useful

in carrying out the policy of this act.

**E $\frac{1}{2}$ SE $\frac{1}{4}$ , S $\frac{1}{4}$ S $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$  Section 35  
Township 27 North, Range 19 West, M.P.M.  
Flathead County, Montana.**



Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator

Date **April 25, 1969**

\* As defined in the Code Sec. 1 - "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn.

Three copies of this notice are to be filed with County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator

47261

12/69

50  
53 228  
100m

June

1/2

File No. ....

RECEIVED GW: .....

T. 27 N. R. 19 W. ....

SEP 14 1970

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Thomas J. Heeney, Jr. Address Bigfork, MontanaDriller Homer McClarty Address Kalispell, MontanaDate of Notice of Appropriation of Groundwater March 31, 1969Date well started May, 1953 Date Completed May 14, 1953

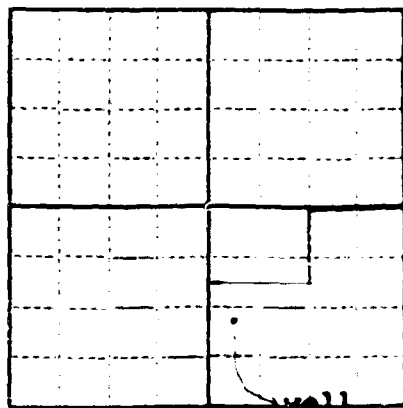
Type of well Drilled Equipment Used Drill  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☒  
Industrial ☐ Drainage ☐ Stock ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Doc. No. 74206  
Filed for record  
the 9 day of September 1969  
A.D. 1970 at 2.55  
Clock P.M.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
	7" OD	1'	17'			



35 27N. 19W.

1/4 Sec. T. R.  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 10' feet.Shut-in Pressure for Flowing Well Not testedPumping Water Level 17' feet at 15 gal. per minute. Not testedDischarge in gal. per min. of flowing well Not applicableHow Tested Not applicable Length of Test Not applicable

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation) Irrigate approx. 100 acres of E1/4, S1/4, SW1/4, Section 35, Township 27 North, Range 19 West, M.P.M. Flathead County, Montana.

Thomas J. Heeney, Jr.  
Owner

Driller's License Number

Homer McClarty  
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

47489

14206

Sept 9 235  
Sept 10 235  
Sept 11 235



GW 3

File No. \_\_\_\_\_

T. \_\_\_\_\_ R. \_\_\_\_\_

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

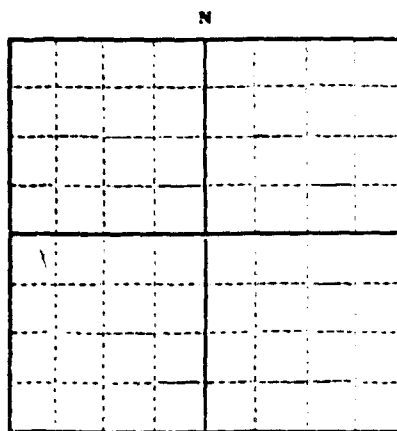
Date of Appropriation of Groundwater 7-25-72

Owner Flathead County Address Bozeman, Montana

Contractor (if any) None

Address of Contractor None

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_



Section 14 T. 24 R. 1  
Indicate point of appropriation  
and place of use, if possible.

Sec. No. 14, 286  
A.D. 1975  
Date 7-25-72

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Water is obtained from a natural spring located on the property of the Flathead County. The water is obtained from a natural spring located on the property of the Flathead County. The water is obtained from a natural spring located on the property of the Flathead County.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use \_\_\_\_\_

Approx. 100,000 gal. per day. Some sold use.  
Approx. 100,000 gal. per day.

Signature of Owner Flathead County

Date 7-25-72

This form to be prepared by contractor if any, otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

14, 686

STATE OF MONTANA )  
COUNTY OF FLATHEAD ) SS  
Filed on the 14 day of May  
A. D. 1923 at 2:15 o'clock PM  
MI  
County Clerk and Recorder  
By OSTO

GW 3

File No. ....

T. .... R. ....

ORIGINAL

County. ....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUN 16 1963

STATE ENGINEER

**Notice of Completion of Groundwater Appropriation Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater June 11, 1963

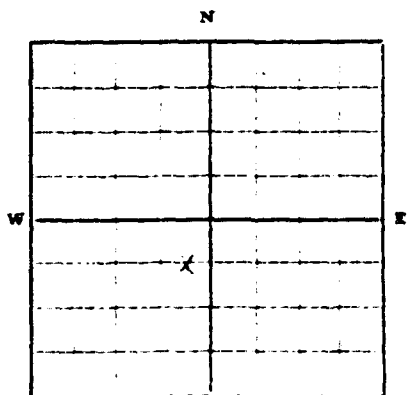
Owner W. H. Hargrett Address Butte, Montana

Contractor (if any) .....

Address of Contractor .....

Date Started June 11, 1963 Date Completed June 11, 1963

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. By natural seepage of water from the creek.



GOVT LOT 7s

Sec. 35, T. 22, R. 19

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use .....

12 months approximately

Signature of Owner W. H. Hargrett

Date June 11, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

9889

63 11 40 Oct  
940  
98m  
m. 2.

File No. ....

GW 2

T. ... R. ...

County Glacier

**STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER**

**Notice of Completion of Groundwater  
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Owner Ronald E. Munter Address Box 1, BigforkDriller James McClarty Address 145-5th Ave N

Date of Notice of Appropriation of Groundwater .....

Date well started Aug 15/69 Date Completed Aug 25/69Type of well Hand-dug Equipment Used 1 1/2" Biscupus  
Erie  
(dug, driven, bored or (Churn, drill, rotary or  
drilled) other)Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Stock ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Top of Ground  
(Elev. above sea level 2980)

Top gravel  
Gravel  
Sand & clay  
34 ft.

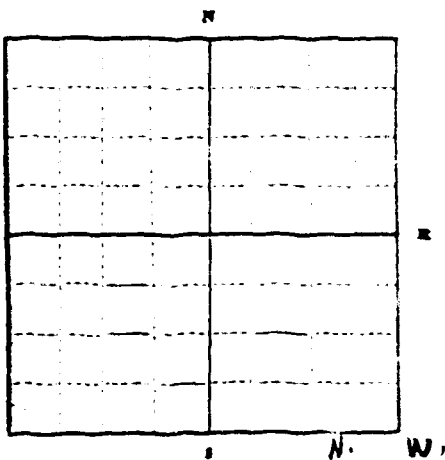
Clayier drift  
53 ft  
Clay with  
grit

128 ft  
Push sand  
with water

138 ft Water 23 ft

Course sand  
& gravel

Kind Size	From (Feet)	To (Feet)	PERFORATIONS		
			Kind Size	From (Feet)	To (Feet)



Sec. 1 T. 7 R. 1  
Indicate location of well and  
place of use, if possible. Each  
small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 7 feet.

Shut-in Pressure for Flowing Well .....

Pumping Water Level 10 feet at 30 gal. per minute.

Discharge in gal. per min. of flowing well .....

How Tested Boiler Length of Test 3 hrs

Remarks: Gravel packing, cementing, packers, type of shutoff, loca-  
tion of place of use of groundwater if not at well, and any  
other similar pertinent information, including number of  
acres irrigated, if used for irrigation)

Driller's License Number 17Driller's Signature James McClarty

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state. Otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator

45515

14,049

STATE OF MONTANA  
COUNTY OF DEWEESE  
Filed on 26 Aug  
A.D. 1969 at 1:05 P.M.  
County Clerk and Recorder  
By M.J.  
Deputy

File No. \_\_\_\_\_

T. \_\_\_\_\_ R. \_\_\_\_\_

DUPLICATE

County Yellowstone

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater  
Appropriation by Means of Well  
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

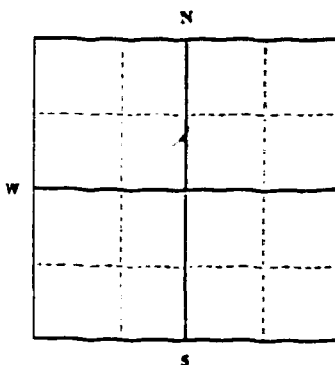
Owner Julius + Evelyn Address Red Rock Mont.Driller Bob Hudson Address Super Lake

Date of Notice of appropriation of groundwater \_\_\_\_\_

Date well started May 20, 64 Date completed May 27, 64Type of well Drilling Equipment used Churn  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" 17 lb.	0	109			

Static Water Level for non-flowing well 10 feet.

Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level 16 feet  
at 30 gal. per minute.

Discharge in gal. per min. of flowing well \_\_\_\_\_

How Tested FlowLength of Test 2 hrs

Remarks: (Gravel packing, cementing, packers, type of shutoff) \_\_\_\_\_

Doc. No. 14136

Filed for record

May 23, 64

A.C. 1970

Block A-11

Sec 35 T. 27 R. 19  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Chil  
9:37

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state. otherwise the form will be returned.

Driller's License Number

Driller's Signature

46542

14136

STATE OF MONTANA  
COUNTY OF FAYETTE  
FILED IN CASE NO. 14136  
A. C. 14136  
By *[Signature]*  
Deputy



GW 2 - NEWS

File No.

DUPLICATE

CONSERVATION BOARD

T. R.

County. *Glenn*

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner *Earl A. Zernardo* Address *7511 Bigfork*  
Driller *Homer McCarty* Address *945-8th St. W*

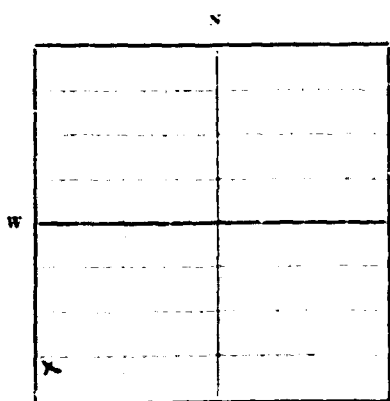
Date of Notice of Appropriation of Groundwater  
Date well started *Nov 12/66* Date Completed *Nov 14/66*  
Type of well *Drilled* Equipment Used *2 1/2" Buryer*  
(dug, driven, bored or (Churn, drill, rotary or  
drilled) other) *E. McCarty*

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐  
Industrial ☒ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Top of Ground  
(Elev. above sea level *2980*)  
*Gravel*  
*2*  
*Cobbles*  
*18 ft*  
*Clay*  
*+*  
*Gravel*  
*24 ft*  
*Clay*  
*pit*  
*47 ft*  
*Sand*  
*Gravel*  
*Water*

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<i>7" 5/8"</i>	<i>23#</i>		<i>57 ft</i>			



*SW 1/4 Sec 35 T27 R19*

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

*57 ft*  
Show exact depth of bottom.

Static Water Level for non-flowing Well *17* feet.

Shut-in Pressure for Flowing Well

Pumping Water Level *45* feet at *20* gal. per minute.

Change in gal. per min. of flowing well

How Tested *Paired* Length of Test *3 hrs*

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

*18*  
Driller's License Number  
*Homer McCarty*  
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

13,840

67 26 March  
24 17  
24 17

## GROUNDWATER INDEX

Page 1 of 1

County Flathead Twp. 28N Rge. 26W

[illegible]

File No. \_\_\_\_\_

T. 26 N R. 26 W  
County Flathead

DUPLICATE

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARDNotice of Completion of Groundwater  
Appropriation by Means of Well  
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

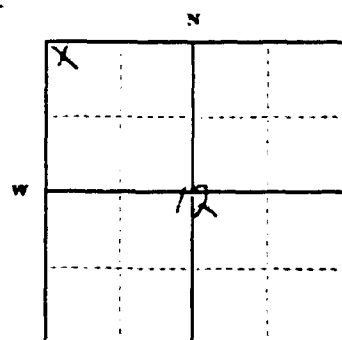
Owner U.S. Forest Service Address Libby Mont.  
Driller C. J. P. & Son Address Libby Mont.

Date of Notice of appropriation of groundwater \_\_\_\_\_

Date well started 5-20-69 Date completed 5-23-69Type of well drilled Equipment used Churn  
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 3/8	2 1/2	0	8 1/2	1/2 sand	0	4'



McGregor Lake Camp, ground

NW 1/4 Sec. 12 T. 26 N. R. 26 W.  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.Static Water Level for non-flowing well 25 feet.

Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level 80 feet  
at 4 to 5 gal. per minute.

Discharge in gal. per min. of flowing well \_\_\_\_\_

How Tested baledLength of Test 2 1/2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) \_\_\_\_\_

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

141  
Driller's License NumberClifford J. Bucher  
Driller's Signature.

4544

14,036

STATE OF MONTANA  
COUNTY OF FLATHEAD

Filed on the 21 day of Aug  
A.D. 1969 at 8:10 o'clock AM

*Scm*

County Clerk and Recorder

By *SA*

Deputy

File No.

Township Range

County

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

Under Chapter 237 Montana Session Laws, 1991

- A - 1905
- B - 1960
- C - 1936
- D - 1920
- E - 1950
- F - 1960

Date of Appropriation of Groundwater

Owner **Ed Palm**

Address **Marion, Montana**

Contractor, if any

Address of Contractor

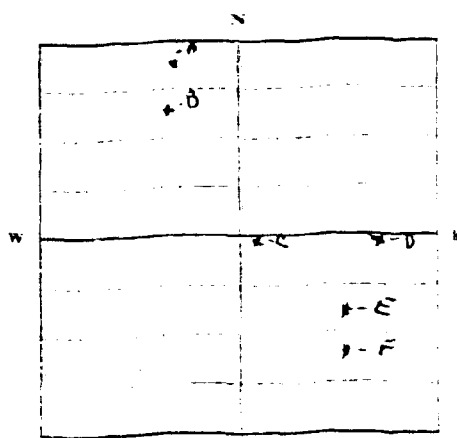
Date Started **as above**

Date Completed

Describe means of obtaining groundwater without a well "as by  
superintendence and other natural processes". Include depth to

water when applicable. **Each letter designation**

**represents a free flowing spring.**



**NW 1/4 17 26N R26W**

Indicate point of appropriation  
and date of use of water.

quantity of water developed and used with explanation of method  
of use or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. **The quantity**

**of water developed depends upon the condition**

**of the spring from time to time. The water**

**is used continually for irrigation, ranch**

**purposes and domestic use.**

*Ed Palm*

Date **December 30, 1963**

This form to be prepared by contractor, or any other person by the owner.

Two copies of this form are to be filed with the county clerk and a copy of the county in which the  
works are located.

If you have all questions, if you apply for a license, therefore the form will be returned.

Original of this form to be filed with the State Engineer. Triplicate to the Montana  
Department of Natural Resources, Helena, Montana.

10541

63 30 Dec  
Henn & Mulhouse  
Cherth

File No.

T. 26 N. R. 26

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 6 1964  
STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

Under Chapter 267 Montana Session Laws, 1961

Date of Appropriation of Groundwater

Owner Donald Boyson

Address Marion, Mont

Contractor, if any

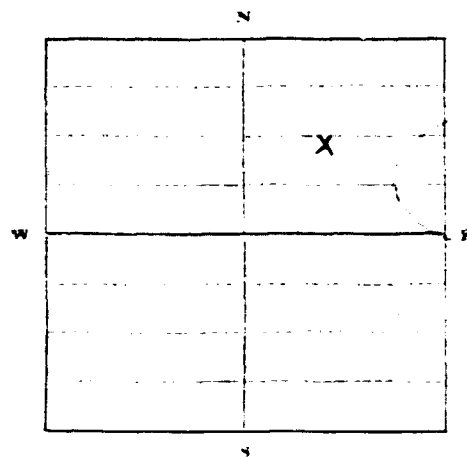
Address of Contractor

Date Started

Date Completed

Describe means of obtaining groundwater without a well "as by  
subirrigation and other natural processes". Include depth to  
water when applicable.

Gravity Flow  
Surface water



quantity of water developed and used with explanation of method  
used to measure or estimate such amount. If use is intermittent

estimate of approximate lengths of periods of use

SW 1/4 NE 1/4 Sec 20 T26 R26

Indicate point of appropriation  
and place of use, if possible.

1 1/2" pipe  
Stock water

Signature of Owner Donald B. Boyson

Date Dec. 27, 1963

This form to be prepared by contractor, if any, otherwise by the owner.

Three copies of this form are to be filed with the County Clerk and a copy of the county in which the  
appropriation is made.

If use answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to be County Clerk and Register, and filed with the State Engineer. Triplicate to the Montana  
Department of Mineral Resources and Geology, Office of Groundwater Appropriation.

22-46



10,366

30 Dec  
63 841 a  
2671  
19x

GW 3

File No. ....

T 26<sup>7</sup> R 26<sup>7</sup>

ORIGINAL

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 17 1963

STATE ENGINEER

**Notice of Completion of Groundwater Appropriation Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

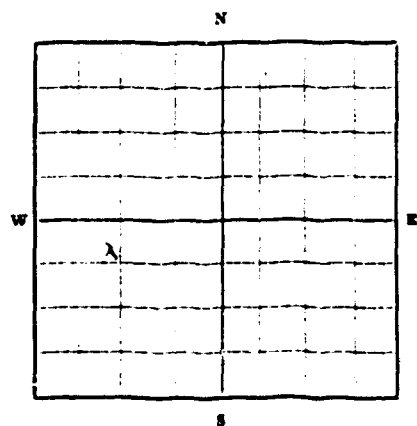
Date of Appropriation of Groundwater 1889  
Northern Pacific Railway N. P. Building  
Owner Company Address St. Paul, Minnesota

Contractor (if any) .....

Address of Contractor .....

Date Started..... Date Completed 1889

Describe means of obtaining groundwater without a well "as by  
sub-irrigation and other natural processes". Include depth to  
water when applicable. Gravity flow through pipe  
from catchment basin.



ST 14 Sec 28 T26N R26W

Indicate point of appropriation  
and place of use, if possible.

Quantity of water developed and used with explanation of meth-  
od used to measure or estimate such amount. If use is intermit-

tent estimate approximate lengths of periods of use .....

10 Meters inches. Continuous year round use.

Quantity estimate based on amount that will flow  
through pipeline plus measurements of overflow  
channel.

Northern Pacific Railway Company  
Signature of Owner By Basil D. W. ...

Date Dec. 9, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in  
which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the  
School of Mines and Quadruplicate for the Appropriator.

10-06

9975

AD 1963-451-151  
38m  
m2

GW3

File No. ....

ORIGINAL

T 26 R 26  
County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
MAR 14 1963

STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater .....

Owner Stanley P. Best Address Star P. Marion Mont

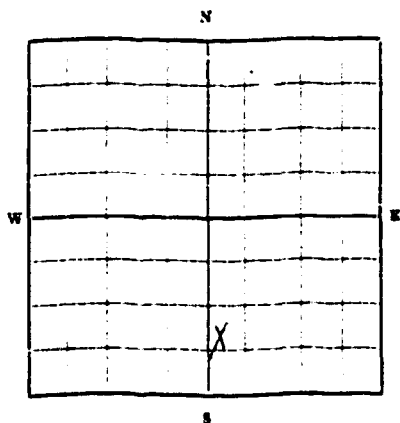
Contractor (if any) .....

Address of Contractor .....

Date Started ..... Date Completed .....

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.

Spring 2ft.



1/4 Sec. T. R.

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use .....

house hold use - pump.

Signature of Owner Stanley P. Best

Date Jan. 21, 1963.

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

9538

STATE OF NEW YORK  
COUNTY OF ALBANY  
Filed on the 15 day of Feb  
A.D. 1963 at 1:20 o'clock P.M.  
Shirley E. Millhouse  
County Clerk and Ex-officio  
By James A. Peltz  
Deputy

## GROUNDWATER INDEX

Page 1 of 1

County Hutchinson Twp. 36N Rge. 25W

[illegible]

GW 3

File No. ....

T. .... R. ....

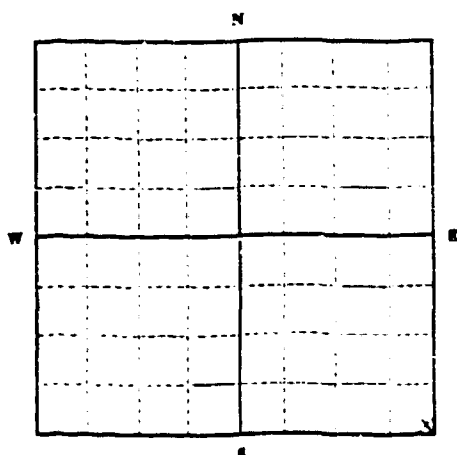
County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

MONTANA WATER RESOURCES BOARD  
RECEIVED  
JAN 30 1970



SE 1/4 Sec. 2, T. 22 N., R. 23 W.  
Indicate point of appropriation  
and place of use, if possible.

Section 17083  
T. 26 N., R. 23 W.  
AC 49 4.45  
C. FW

Date of Appropriation of Groundwater 11-26-69

Owner Harlan T. Hilliard Jr. Address Box 4, Rt. 221, Libby, Mt.

Contractor (if any) .....

Address of Contractor .....

Date Started ..... Date Completed .....

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable spring

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use .....

3 months at present, year round  
later

1 inch pipe running full

Signature of Owner Harlan T. Hilliard Jr.

Date 11-26-69

This form to be prepared by contractor if any, otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator

10076

14,083

STATE OF MICHIGAN  
COUNTY OF ALBANY  
Subscribed and sworn to before me this 26th day of Nov  
A.D. 1869 at 4 1/2 o'clock P.M.  
J.E.M.  
By M.J.  
Deputy



GW 3

File No. ....

T. 26 R. 25

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

RECEIVED

JAN 21 1970

Date of Appropriation of Groundwater 11-26-69

Owner Harlan & Hilliard Address 204 B. 274-10th mt.

Contractor (if any) None

Address of Contractor None

Date Started None Date Completed None

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring developed

& cement casing installed

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use

3 months at first, year  
round later

1 cubic foot per second

Signature of Owner Harlan & Hilliard

Date 11-26-69

This form to be prepared by contractor if any, otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triuplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator


NW 1/4 NE Sec 12 T. 26 R. 25  
Indicate point of appropriation  
and place of use, if possible.

Doc. No. 14284  
Filed for record  
Date 26 day of November  
A.D. 1969 at Helena  
clerk f

205

14,084

STATE OF MONTANA  
COUNTY OF FLATHEAD  
Filed on the 26<sup>th</sup> day of Nov  
A.D. 1969 at 4:46 o'clock P.M.  
J. E. M.  
By J. E. M.  
Deputy

CW3

File No. \_\_\_\_\_

DUPLICATE

T. 26N R. 25W

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater Appropriation Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Sept. 30, 1962  
Owner John E. and Viola E. King Address Star Route Marion, Mont.  
Contractor (if any) (None)  
Address of Contractor (None)

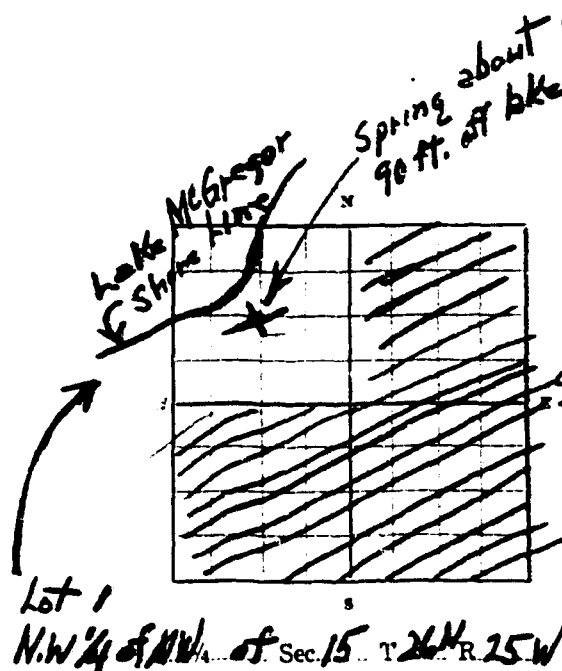
Date Started June 15, 1962 Date Completed Sept. 30, 1962

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Natural Surface Spring with rock enclosure and cover. - Water piped by gravity from Spring to 1000 Gal. Concrete Tank. - Tank used as source of suction for automatic pressure water system.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

Quantity - About 3500 Gals. / 24 Hrs estimated by pumping rate from Suction Tank. System is in continuous use for domestic water service.

Signature of Owner John E. King / Viola E. King  
Date Feb 3, 1963



Indicate point of appropriation and place of use, if possible.

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

9527

STATE OF MONTANA SS  
COUNTY OF FLAHEAD  
Filed on the 8 day of Feb  
A.D. 1943 at 1:45 o'clock P.M.  
G.L.M.  
County Clerk and Recorder  
By M.T. Deputy

GW 1

File No.

ORIGINAL

T. 26 N. R. 25 W.  
County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater Appropriation Without Well**

(Under Chapter 237 Montana Session Laws, 1951)

Date of Appropriation of Groundwater

Owner John E. and  
Contractor Viola E. King

Address June 1, 1959  
Star Route  
Marion, Mont.

Address of Contractor (None)

Date Started (None) Completed

Describe means of obtaining groundwater without a well as well as sub-irrigation and other natural processes. Include depth to water when applicable.

Surface Spring - Rock enclosure  
with run-off ditch.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

Quantity 3000 Gals/24 Hrs.  
Estimated by draw-off and  
recovery rate at spring pit.  
All season usage

Signature of Owner

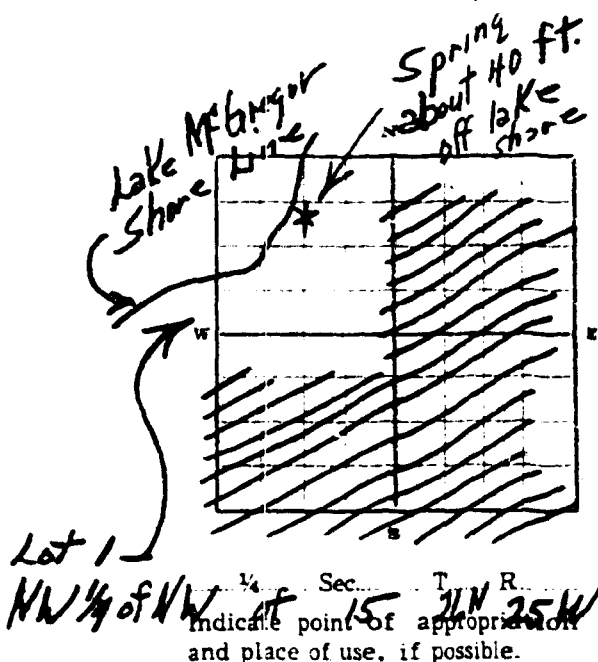
John E. King / Viola E. King  
Date Feb. 8, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.



9528

STATE OF MONTANA, ss  
COUNTY OF FLATHEAD, ss  
Filed on the 8 day of Feb  
A.D. 1963 at 1:00 o'clock P.M.  
G.E.M.  
County Clerk and Recorder  
By J.J.Y. Deputy

# GROUNDWATER INDEX

Page 1 of 1

County Worth Twp. 2677 Rge. 24W

[illegible]

GW3

File No. \_\_\_\_\_

ORIGINAL

T. \_\_\_\_\_ R. \_\_\_\_\_

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 30 1968

STATE ENGINEER

**Notice of Completion of Groundwater Appropriation Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 17 1968

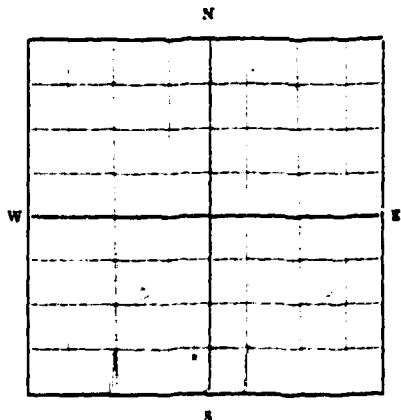
Owner John H. Smith Address 400 N. 1st St.

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Flowing Spring



Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ tent estimate approximate lengths of periods of use \_\_\_\_\_

Indicate point of appropriation and place of use, if possible.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature of Owner \_\_\_\_\_

Date \_\_\_\_\_

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.



1923

63 17 Dec  
" 24  
587m  
m.2

TRIPPLICATE

Top of Ground  
(Elev. above sea level)

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner *Norman A. Thayer* Address *Bozeman, Mont.*

Driller *Doc Sholtz* Address *Bozeman, Mont.*

Date of Notice of Appropriation of Groundwater *Dec 30, 1963*

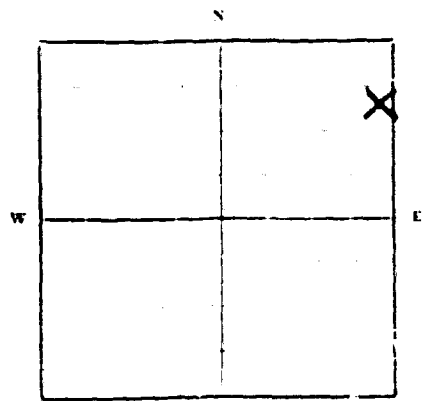
Date well started *June 15, 1964* Date Completed *August 11, 1964*

Type of well *Driven* Equipment Used *Drill string*  
(dug, driven, bored or (Churn, drill, rotary or  
drilled) other)

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☒  
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	5" x 5"	0	63'			



VE. V67 Sec. 6 T2N R24E  
Indicate location of well and place of use, if possible. Each small square represents 16 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well *7' 6"* feet.

Shut-in Pressure for Flowing Well *None*

Pumping Water Level *6* feet at *100* gal. per minute.

Discharge in gal. per min. of flowing well *None*

How Tested *Other* Length of Test

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation)

*See notes on record many years*

*EC*

Driller's License Number

Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder, duplicate to the State Engineer, Triplicate to the School of Mines and Quadruplicate for the Appropriator.

12-157

by S. J. ...  
67 2-12-1964  
GEM  
202

F. No. \_\_\_\_\_

SW. \_\_\_\_\_

T. 26N. R. 24W.

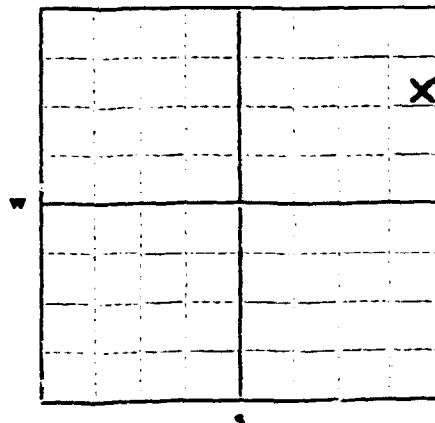
County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

### Declaration of Veined Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Norman K. Hanson of Marion (Name of Appropriator) (Address) (Town)  
County of Flathead State of Mont  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 8 T26N R24W

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based household + livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. June 1948 Every day

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 100 gal per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Pressure pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. June 15th 1948

8. The depth of water table. Vein was struck at 63' water rise 50' in casing

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 8" cast iron casing drilled down 63'

10. The estimated amount of groundwater withdrawn each year 200 gals per day

11. The log of formations encountered in the drilling of each well if available gravel for 22 feet then 3' hard clay then small gravel to water vein

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Signature of Owner Norman K. Hanson  
Date Dec 30, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

2272

10543

to the  
309  
Allen E. M. M. M.  
Smith

File No. ....

GW 2

NE 1/4

Sec 10

T26N R 24W MP4N

County Flathead

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level 980)

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner John M. Young Address MarionDriller Harmer M. Clardy Address 945 8th Ave N

Date of Notice of Appropriation of Groundwater .....

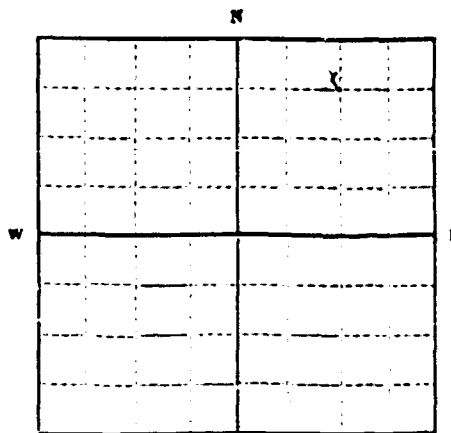
Date well started Oct 15/64 Date Completed Oct 23/64Type of well Drilled Equipment Used 2 1/2" Bucyrus Erie  
(aug, driven, bored or drilled) (Churn, drill, rotary or other)Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Stock ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Boulders  
cobblers  
18 ft  
  
24' some  
water 42.5 MPW  
boulders

Clay  
&  
gravel

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8" 2 1/2"	25#	64 ft				



NE 1/4 Sec. 10 T26 R24

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

86 ft water bearing gravel  
Show exact depth of bottom.

Static Water Level for non-flowing Well..... 18 feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level..... 30 feet at 25 gal. per minute.

Discharge in gal. per min. of flowing well.....

How Tested Boiler Length of Test 3 hrs

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation).....

Driller's License Number 18Driller's Signature Harmer M. Clardy

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

11,577

Dec  
61 3' 1002  
W 35  
m.2

GWJ

File No. \_\_\_\_\_

T. & R. \_\_\_\_\_

ORIGINAL

C. \_\_\_\_\_

D. \_\_\_\_\_

Divert \_\_\_\_\_

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Notice of Completion of Groundwater Appropriation Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater \_\_\_\_\_

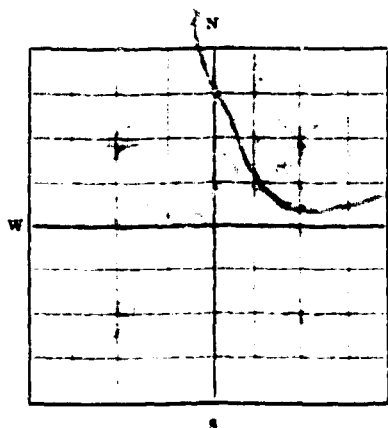
Owner James H. H. H. Address 40. N. 10th

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. See sketch and description below



Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use \_\_\_\_\_

Sec. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_  
Indicate point of appropriation and place of use, if possible.

In the center of the property  
between the two lines  
of the property  
as shown on the sketch

Signature of Owner James H. H. H.

Date April 11, 1966

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.





GW 3

File No. \_\_\_\_\_

ORIGINAL

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER.

## Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater \_\_\_\_\_

Owner Norman Hansen Address Harbin, Mont.

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. \_\_\_\_\_

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature of Owner \_\_\_\_\_

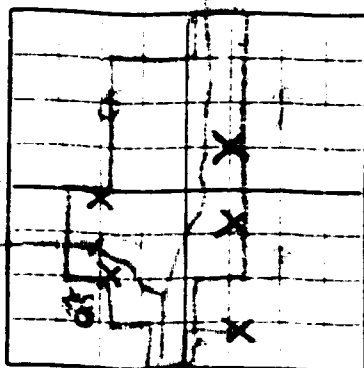
Date \_\_\_\_\_

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.



1/4 Sec. T. R.

Indicate point of appropriation and place of use, if possible.

Figure 1 is a line graph showing the percentage of total body weight in fat (Y-axis, 0 to 30) versus age in years (X-axis, 0 to 100). The graph shows a steady increase in body fat percentage with age, starting from approximately 10% at age 0 and reaching about 25% at age 100. The line is labeled "Total body weight in fat".